

Q 1

The solids which does not possess the regular arrangement of atoms are called as ____?

A

Amorphous solids

B

Crystalline solids

C

Polymorphic solids

D

Isomorphous solids

[< Previous Question](#)[Next Question >](#)

Q 2

Transition elements form complexes because_____?

A

They have empty d orbitals

B

They show variable oxidation states

C

Both a and b

D

They have strong bonding

1

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 3

Which functional group does amino acid contains;

A

carbonyl group

B

ester and alkyl halide

C

carboxylic acid

D

carboxylic acid and amine functionality

2

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 4

Which of the following reactions are not given by benzene?

A

Elimination

B

Addition

C

Substitution

D

Dehydration

3

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 5

Iodine has greater heat of sublimation than its family members due to presence of stronger?

A

H-bonding

B

London dispersion forces

C

Dipole-dipole force

D

Chemical bonding

4

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 6

As reaction starts instantaneous rate is

A

Higher than Average rate

B

Lower Than average rate

C

equal to average rate

D

None of these

5

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 7

_____cathode is used in discharge tube experiment for discovery of protons

A

flat

B

round

C

perforated

D

oval

6

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 8

_____ is a macromolecule found in blood

A

Hemoglobin

B

plasma

C

creatinine

D

plasmids

7

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 9

Hess law is known as

A

Law of heat summation

B

Law of constant heat capacity

C

Law of mass action

D

Law of conservation of mass

8

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 10

The carbonyl compound which is attached with at least one H atom at one side is called as _____?

A

Ketones

B

Aldehydes

C

Ethers

D

Alkyl halides

9

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 11

Conversion of Electrical energy into chemical energy is

A

Mechanical Energy

B

Electromechanical Energy

C

Electrochemistry

D

Chemical Energy

10

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 12

Suppression of ionization means

A

Decreasing Ionization

B

Increasing Ionization

C

Maintaining Ionization

D

None of these

11

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 13

Which one is natron?

A

Na_2CO_3

B

$\text{Na}_2\text{CO}_3 \cdot 10 \text{H}_2\text{O}$

C

$\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$

D

NaHCO_3

12

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 14

when sudden expansion of gases takes place, cooling occurs. This is called

A

freezing effect

B

Joule Thomson effect

C

Boyles effect

D

J.Perrin effect

13

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 15

By which reaction benzene is prepared from cyclohexane?

A Hydrogenation

B Dehydrogenation

C Dehydration

D None of these

14

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 16

Which one of the following is most reactive ?

A

Benzene

B

Ethane

C

Ethene

D

Ethyne

15

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 17

Effusion is the movement of a gas through extremely small opening of molecular size into region of ____ pressure

A high

B low

C moderate

D same

16

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 18

The activation energy for forward and reverse reaction can be lowered by

A Lowering temperature

B decreasing pressure

C catalyst

D All of these

17

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 19

The alcohols in which the carbon which is attach to the OH group is further attach with two carbon atoms is called as?

A Primary alcohols

B Secondary alcohols

C Tertiary alcohols

D None of these

18

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 20

The elements of which group show abnormally very low values of electron affinity in every period of periodic table

A

group 2A

B

group 5A

C

both A & B

D

none of these

19

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 21

The increase in atomic radii in _____ is due to increase in the number of shells and the screening effect

A

groups

B

periods

C

both A & B

D

none of these

20

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 22

What will be density of CH_4 at C and 1 atm

A

7138 g/cm³

B

0.7138g/dm³

C

0.7138g/cm³

D

71.38g/dm³

21

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 23

On which of the following factors rate of enzyme action is directly proportional ?

A

Concentration of products

B

Time

C

Concentration of substrate

D

Concentration of solvent

22

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 24

Canal rays are produced in the discharge tube from_____?

A

Anode

B

Cathode

C

Gas molecules in the tube

D

None of these

23

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 25

Which one of the following is not a organic compound?

A

Urea

B

Methane

C

Carbon dioxide

D

Coal

24

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 26

The total energy of products in a chemical reaction is

A

equal to reactants

B

More than reactants

C

always zero

D

Less Than Reactants

25

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 27

The positive sign in the rate expression for products depicts

A

Decrease in concentration

B

Increase in concentration

C

Increase in yield

D

decrease in temperature

26

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 28

Thermal conductivity of graphite is greater when mobile electron are moving _to its layers

A

perpendicular

B

right angle

C

parallel

D

all of these

27

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 29

Which of the following is true about the kinetics of bimolecular elimination reactions?

A 1st order reaction

B 2nd order reaction

C Zero order reaction

D 3rd order reaction

28

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 30

Isoenzymes comes from_____?

A

Same sources

B

Different organisms

C

Same organisms

D

None of these

29

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 31

Which of the following reaction takes place when alkyl halide react with KOH in water ?

A

Substitution reaction

B

Elimination reaction

C

Addition reaction

D

None of these

30

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 32

Which one of the following is a state function that describe both the internal energy and product of pressure and volume ?

A Entropy

B Heat

C Enthalpy

D Temperature

31

SKIPPED QUESTIONS 

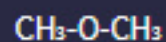
 Previous Question

Next Question 

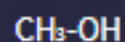
Q 33

Which of the following compound is a Alcohol?

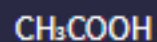
A



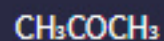
B



C



D



32

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 34

The E.m.f of a Cell is equals to

A

$\text{Emf(oxidation)} - \text{Emf(Reduction)}$

B

$\text{Emf(oxidation)} + \text{Emf(Reduction)}$

C

$\text{Emf(oxidation)} \times \text{Emf(Reduction)}$

D

None of these

33

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 35

NaOH is named as caustic soda because

A It corrodes the organic tissues

B It is used in soda water

C It reacts with chlorine gas

D It reacts with fats to form soap

34

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 36

Conversion of water into steam is a

A

Spontaneous Reactions

B

Exothermic Reaction

C

Reversible Reaction

D

Combustion Reaction

35

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 37

Which at following can be prepared by the reaction of Grignard reagent with aldehydes

A Ketones

B hydrocarbons

C alcohols

D ethers

36

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 38

The region where probability of finding the electron is negligible is called as

A

Nucleus

B

Atom

C

Orbital

D

Nodal plane

37

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 39

A full stop may have _____ atoms present in it

A

one million

B

two millions

C

one billion

D

two billions

38

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 40

If we are given with the mass of a substance ,we can calculate _____ of other substance with the help of a balanced chemical equation.

A

mass

B

volume

C

moles

D

all of these

39

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 41

Which enzyme is used for diagnosis of Jaundice ?

A

LDH-1

B

Protease

C

Alkaline phosphatase

D

None of these

40

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 42

Boiling point of halogens _____ down the group?

A

Increases

B

Decreases

C

Remain same

D

Shows abnormal behaviour

41

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 43

Platinum Foil is coated with finely divided platinum black in SHE to give larger

A

Mass

B

Volume

C

Surface Area

D

Temperature difference

42

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 44

If anyone of the products concentration is plotted against time instead of reactants the curve obtained will be

A Parabolic

B Rising

C Falling

D Elliptical

43

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 45

What is the value of enthalpy of neutralization when one mole of base reacts with one mole of acid?

A - 60.5 kJ/mol

B -46.5kJ/mol

C -70.5 kJ/mol

D -57.4kJ/mol

44

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 46

The transition temperature of all allotropic forms of an element are always less than its

A freezing point

B melting point

C boiling point

D none of these

45

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 47

Which of the following would not mix with each other easily ?

A

Water, ethanol

B

Water, acetone

C

Water, pentane

D

Water, chloroform

46

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 48

It is not possible for us to measure exact position and exact momentum of electron simultaneously is the statement of

A de-Broglie

B Mosley

C Heisenberg

D Neil Bohr

47

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 49

Activator of carbonic anhydrase enzyme is_____.

A

Mn^{2+}

B

Mg^{2+}

C

Zn^{2+}

D

None of these

48

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 50

Benzene molecule contains:

A

Three triple bonds

B

Two double bonds

C

Three double bonds

D

No multiband

49

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 51

In some cases during atomic orbital hybridization, ground state electrons promoted to excited states , as a result __ increases

A

number of shells

B

number of electrons

C

number of unpaired electrons

D

number of bonds

50

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 52

The oxidation number of Nickel in $[\text{Ni}(\text{CO})_4]$ is

A

2

B

8

C

6

D

4

51

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 53

The sum of mole fraction of the gases in a mixture of gases is

A

always greater than 1

B

always smaller than 1

C

may be equal or less than 1

D

always 1

52

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 54

The catalyst used for ether formation by dehydration of alcohols

A

Cons HN_3 at 14 C

B

Cons H_2SO_4 at 14 C

C

Hot H_3PO_4 at 18 C

D

ZnCl_2 at 45 C

53

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 55

Which of the following bond has highest bond energy value ?

A

C-I

B

C-H

C

C-Cl

D

C-F

54

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 56

The _study of composition of pure substance in 17th century clearly shows that few elements are components of many substances

A qualitative

B quantitative

C both A & B

D extensive

55

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 57

What is the purpose of calcium in the muscles?

A

It helps move the myosin head into a high-energy position

B

It allows tropomyosin to be pulled away from the actin filament

C

both a and b

D

none of these

56

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 58

This is a reduced compound

A

CO₂

B

O₂

C

NADH

D

NAD⁺

57

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 59

In bacterial categories the bacteria smaller in number are which of the following?

A Gram negative bacteria

B Gram positive bacteria

C Eubacteria

D Ancient bacteria

58

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 60

The animals in which coelom is formed due to splitting of mesoderm are known as which of the following?

A Pseudocoelom

B Enterocoelous

C Amphicoelous

D Schizocoelous

59

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 61

Which element has function in opening and closing of stomata?

A

K

B

Mg

C

Cu

D

Fe

60

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 62

What is the name of the tube that carries the sperm from the testes to the urethra?

A

Penis

B

seminal vesicles

C

Prostate gland

D

sperm duct

61

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 63

In competitive inhibition, the two things that binds to enzyme active site are?

A

substrate

B

inhibitors

C

catalyst

D

both A and B

62

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 64

A complex substance which on hydrolysis yields polyhydroxy aldehyde or ketone subunits is called?

A

Lipid

B

Carbohydrate

C

Protein

D

All of these

63

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 65

Which reaction is catalyzed by the enzyme RuBisCO?

A

carboxylation of ribulose biphosphate (RuBP)

B

conversion of triose phosphate (TP) to ribulose phosphate (RuP)

C

oxidation of glycerate-3-phosphate (GP)

D

reduction of glycerate-3-phosphate (GP)

64

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 66

The severe reduction in population size is due to which of the following?

A genetic drift

B outbreeding

C inbreeding

D bottleneck

65

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 67

The outermost layer in a typical plant cell would be _____.

A

Primary cell wall

B

Secondary cell wall

C

Middle lamellae

D

Cell surface membrane

66

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 68

Mating with non-relatives is known as?

A

inbreeding

B

outbreeding

C

breeding

D

none of these

67

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 69

Where does the bacteriophage replicate?

A

Human

B

Animal

C

Bacteria

D

Horse

68

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 70

Which of the following is not a component of HIV?

A

RNA

B

protein

C

ribosomes

D

reverse transcriptase

69

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 71

The term that should be last in the reflex sequence is:

A

Receptor

B

Effector

C

Sensory neuron

D

Motor neuron

70

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 72

The reaction of carbon dioxide and RUBP is catalyzed by?

A

ATP synthase

B

Globulin

C

Rubisco

D

NADH dehydrogenase

71

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 73

In Prokaryotes, respiration enzymes are present on

A Mesosomes and cell membrane

B cell membrane and ribosome

C mesosomes and ribosomes

D all of Above

72

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 74

An involuntary and nearly instantaneous movement in response to a stimulus is called:

A

Reflex

B

reflex arc

C

Neuron

D

Synapse

73

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 75

The most important function of the cytoplasm is to acts as a?

A activity site

B storehouse

C wastes

D none of these

74

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 76

What specialized enzymes do the AIDs retrovirus consist of?

A

DNA polymerase

B

Ligase

C

Reverse transcriptase

D

helicase

75

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 77

Sub-kingdom parazoa includes:

A

Annelida

B

Cnidaria

C

Porifera

D

Protozoa

76

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 78

If we consider Hardy-Weinberg law, then following is incorrect in its sense?

- A Mutations cause changes in genetic frequency
- B Migration changes allele frequency
- C There should not be selection
- D Non-random mating will reduce chances of evolution

77

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 79

Which of the following light is least absorbed by the plants?

A Orange blue

B red

C blue

D green

78

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 80

Transmethylases helps in transfer of which of the following?

A methyl group

B ethyl group

C amino group

D acetyl group

79

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 81

In the human body, the group formed by neurons enclosed in the membrane at certain body parts is called?

A

benign

B

malign

C

ganglion

D

neuroglial

80

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 82

How many amino acids are constituents of proteins in the human body only?

A

20

B

24

C

23

D

25

81

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 83

What is true about skeletal muscle cell?

A It has light and dark band

B It has only one nucleus

C It is under involuntary control

D None of these

82

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 84

Homology means

A

similiary in characteristics resulting from common ancestors

B

similarity in function from acquired characterists

C

study of similar organs but with different functions

D

study of similar ogran but with different functions

83

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 85

The rate of reaction is directly proportional to the concentration of an enzyme which statement is incorrect in this respect?

A

If the concentration is doubled the rate will become one fold

B

If the concentration is doubled the rate will become two fold

C

This relation is for unlimited time period with unlimited enzyme concentration

D

all of these

84

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 86

How is the HIV virus transmitted?

A

Sexual contact

B

Blood

C

Breast feeding

D

all of the above

85

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 87

The bacteriophage incorporates in the viral genome in which phase?

A lysogenic cycle

B lytic cycle

C both

D none

86

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 88

Reflex arc is comprises of:

A

Motor nerve

B

sensory nerve

C

Both A and B

D

Mixed nerve

87

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 89

What is not true about human lungs?

A

They are opened sacs

B

They are closed sacs

C

They are spongy in nature

D

They are placed in chest cavity

88

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 90

When did experimental administration of the HIV virus begin?

A

200

B

2001

C

2005

D

1999

89

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 91

The thick and thin filaments of myofibrils are arranged in units called:

A

Z-line

B

actin

C

Sarcomere

D

sarcolemma

90

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 92

A disc-like protein that is centrally found in sarcomeres is:

A

H line

B

Z line

C

M line

D

I line

91

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 93

The active site of an enzyme is?

A

never changes

B

Forms no chemical bond with substrate

C

They are non specific in their action

D

Determined by structure and the specificity of the enzyme

92

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 94

2nd meiotic division in oocyte is completed during?

A

When ovum is discharged from the ovary

B

Just before fertilization

C

Before the onset of menstruation

D

When oocyte is fertilized by sperm

93

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 95

The path of electrons through the two photosystems is called?

A S scheme

B X scheme

C Z scheme

D Y scheme

94

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 96

Fatty acids move through the plasma membrane by which transport method?

A

Passive transport

B

Active transport

C

Facilitated transport

D

Non-facilitated transport

95

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 97

Peptides are intermediate in the formation of___

A

lipids

B

DNA

C

RNA

D

protein

96

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 98

Flagella might have arisen through the ingestion of which of the following?

A

Cyanobacteria

B

Chlamydomonas

C

Paramecium

D

Spirochetes

97

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 99

Prokaron means before nucleus in

A

Dutch

B

Greek

C

Roman

D

Spanish

98

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 100

How many autosomes does a human primary spermatocyte have?

A

43

B

44

C

45

D

46

99

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 101

In the plants, there are 50 or more thylakoids piled upon each other to form?

A

granum

B

centrosome

C

stroma

D

multinucleate

100

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 102

The cells that secrete testosterone

A Nerve cells

B fat cells

C muscle cells

D interstitial cells

101

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 103

Umbilical cord contains which of the following?

A Pluripotent stem cells

B Blood stem cells

C Cord blood stem cells

D both a and b

102

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 104

A condition is known to be X-linked dominant. An affected man and unaffected woman have a son. What is the likelihood that the son will be affected?

- A There is a one in four chance the son will be affected
- B There is a three in four chance that the son will be affected
- C There is a one in two chance that the son will be affected
- D The son cannot be affected

103

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 105

The external solution having more concentration than the cell sap is known as:

A Hypertonic solution

B Hypotonic solution

C Isotonic solution

D All A,B and C

104

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 106

Darwin described his theory of natural selection as which of the following?

A

Punctuated equilibrium

B

Survival of the fittest

C

Inheritance of acquired characteristics

D

Descent with modification

105

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 107

which of the following best describes the prosthetic group?

A Loosely bonded non-proteins part of an enzyme

B cofactor consists of metal ions

C Covalently bonded non-protein part of an enzyme

D none of these

106

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 108

To form a female zygote, the sperm cell must contribute which chromosome?

A X

B 2X

C Y

D XY

107

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 109

Mendel's laws are explained by:

A

Chromosomes behaviour in mitosis

B

Cytokinesis in mitosis and meiosis

C

Chromosomes behaviour in meiosis

D

Mendel's law have not been explained

108

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 110

How do competitive inhibitors affect enzyme efficiency?

A Raise the maximum rate of the enzymatic reaction

B Lower the maximum rate of the enzymatic reaction

C Lower the Michaelis constant

D Raise the Michaelis constant

109

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 111

What is the approximate diameter of the peroxisome?

A 0.5 micrometer

B 1.5 micrometer

C 2 micrometer

D 1 micrometer

110

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 112

The composition of brain stem is:

A spinal cord, axon, vertebra

B cerebrum, cerebellum, pons

C medula, pons, midbrain

D thalamus, midbrain, pons

111

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 113

Which of these joints allow little or no movement?

A

Synovial Joints

B

Ball and Socket Joint

C

Cartilaginous Joints

D

Cartilaginous Joints

112

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 114

For every 3 molecules of carbon dioxide in Calvin cycle how much G3P is produced?

A

6

B

2

C

4

D

8

113

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 115

What is the chemical characteristic of auxins?

A Indole propionic acid

B Indole carboxylic acid.

C Indole acetaldehyde

D Indole acetic acid.

114

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 116

Porcupine is a mammal because:

- A The scales on its body are modified as spines for protection against predators.
- B It lays eggs and has mammary glands.
- C The fur on its body is modified as spines and it is warm-blooded.
- D None of the above.

115

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 117

Louis Pasteur made many discoveries in field of

A Microbiology and Genetics

B Genetics and Medicines

C Microbiology and Medicines

D Pathology and Genetics

116

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 118

Primordial soup is a set of hypothetical conditions on ancient earth first proposed by?

A Dmitri Ivanovsky

B Dmitry Anuchin

C Nikolay Shatsky

D Alexander Oparin

117

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 119

Which of the following is synthesized by free floating ribosomes of cytoplasm in humans?

A DNA polymerase

B salivary amylase

C pancreatic amylase

D DNA helicase

118

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 120

The number of calories required to raise the temperature of 1g of water from 15 to 16 C is called?

A Specific Heat of Vaporization

B Specific heat capacity

C caloric heat

D both a and b

119

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 121

Which of the following strategies of enzymatic inhibition is used by noncompetitive inhibitors?

A

Bind to substrate so that it cannot bind to the active site

B

Target the enzyme for destruction using a protease

C

Bind to the active site and prevent substrate from binding

D

Bind to an allosteric site to cause a conformational shift in the enzyme

120

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 122

Which of these is common is both lymph vessels and veins?

A Both have small bore

B both have valves

C both have low blood pressure

D both are communicated

121

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 123

Fatty acids release considerable amount of energy in oxidation and ____

A calvin cycle

B Kreb's cycle

C dark reaction

D light reactions

122

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 123

Fatty acids release considerable amount of energy in oxidation and ____

A

calvin cycle

B

Kreb's cycle

C

dark reaction

D

light reactions

122

SKIPPED QUESTIONS

< Previous Question

Next Question >



Download with IDM



Q 124

Which of the following is not a true characteristic of gametocytes?

A

Male gametocytes are called spermatocytes

B

Gametocytes can divide by mitosis into other gametocytes

C

Female gametocytes are called oocytes

D

They are eukaryotic somatic cells

123

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 125

Which rays have highest charge

A

alpha

B

beta

C

gamma

D

none of these

124

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 126

Resistivity of a substance is defined as the resistance of a _____ of that substance.

A meter

B meter square

C meter cube

D centimeter

125

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 127

One radian is equal to:

A 57.3 degrees

B 47.3 degrees

C 67.5 degrees

D 59.5 degrees

126

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 128

In an A.C. generator, increase in number of turns in the coil

A

increases emf

B

decreases emf

C

makes the emf zero

D

maintains the emf at a constant value

127

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 129

The current passing through a conductor is directly proportional to the potential difference applied across its terminals, provided the temperature and other physical conditions of the conductor does not change

A Gauss's law

B Lenz law

C Pascal's law

D Ohm's law

128

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 130

In stretched string the frequency of vibration is given by $f = \frac{1}{2L} \sqrt{F/m}$. In this equation m has dimension

A ML⁻²

B ML⁻¹

C M

D ML

129

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 131

What is the SI unit of work

A joule

B newton

C watt

D none of these

130

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 132

The value for ϵ_r for air is:...

A

1.6

B

1.06

C

1.006

D

1.0006

131

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 133

Two objects, with different sizes, masses, and temperatures, are placed in thermal contact. In which direction does the energy travel?

- A energy travels from the larger object to the smaller object
- B energy travels from the object with more mass to the one with less mass
- C energy travels from the object at higher temperature to the object at lower temperature
- D energy does not travel

132

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 134

The direction of the restoring force is always towards:

A right hand

B up ward

C rest or mean position

D extreme position

133

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 135

When north pole of bar magnet move towards a conducting loop, induced current flows in

A

clockwise sense

B

anticlockwise sense

C

not generates

D

not enough information

134

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 136

Half wave rectifier has _____ diodes

A

1

B

2

C

3

D

4

135

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 137

What will happen in a time of 7 hours, if a radioactive substance has an average life of 7 hours?

A

Half of the active nuclei decay

B

less half of the active nuclei decay

C

more than half of the active nuclei decay

D

total nuclei decay

136

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 138

The speed of sound in a metal is approximately:

A 1500 m/s

B 5000 m/s

C 330 m/s

D 50 m/s

137

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 139

A succession of events which bring the system back to its initial condition is called:....

A oscillation

B vibration

C cycle

D circle

138

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 140

Acceleration in the Simple pendulum is always _____ to displacement

A inversely proportional

B directly proportional

C acting negative

D independent

139

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 141

A simple pendulum has mass M , length L and time period T . What is the period of oscillation of the pendulum with mass $4M$ and length $0.36L$?

A $0.6T$

B T

C $2T$

D $3T$

140

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 142

A surface around a point source of light, on which all the points have the same phase of vibration is known as:

A equipotential

B surface of sphere

C wavefront

D ellipsoid

141

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 143

A uniform chain of length 2 m is kept on a table such that a length of 60 cm hangs freely from the edge of the table. The total mass of the chain is 4 kg. What is the work done in pulling the entire chain on the table?

A 7.2 J

B 3.6 J

C 120 J

D 1200 J

142

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 144

UV radiation is formed by bombarding gas molecules with

A electron

B protons

C alpha rays

D any of these

143

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 145

Magnetic flux is the dot product of magnetic induction and

A

area

B

vector area

C

unit area

D

none of these

144

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 146

A circuit that adds positive or negative dc voltage to an input sine wave is called

A Clamper

B clipper

C diode clamp

D limiter

145

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 147

The net force acting in an inertial frame is

A positive

B negative

C zero

D none of these

146

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 148

When a body moves in a circle, the angle between its linear velocity and angular velocity is always?

A 180

B 0

C 90

D 45

147

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 149

A reversible engine works between two temperatures whose difference is 100°C . If it absorbs 746 J of heat from the source and rejects 546 J to the sink, calculate the temperature of the source and the sink.

A $100^{\circ}\text{C}, 20^{\circ}\text{C}$

B $100^{\circ}\text{C}, 0^{\circ}\text{C}$

C $80^{\circ}\text{C}, 0^{\circ}\text{C}$

D $80^{\circ}\text{C}, 20^{\circ}\text{C}$

148

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 150

Isotopes means the elements have same

A atomic number

B proton number

C different mass number

D all of these

149

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 151

What is the half-time of a radioactive sample (in minutes), if its mean life is 200 s?

A 0.69 min

B 2 min

C 2.57 min

D 2.31 min

150

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 152

Nucleus absorbs

A

x rays

B

beta rays

C

gamma rays

D

all of these

151

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 153

Electric intensity and electric potential are related as:...

A

electric field intensity is equal to the negative of the gradient of electric potential

B

electric field intensity is equal to the gradient of electric potential

C

electric field intensity is equal to the square of the gradient of electric potential

D

electric field intensity is equal to the twice of the gradient of electric potential

152

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 154

Average dc Voltage across the load in terms of V_{max} is

A $0.532 V_{max}$

B $0.637 V_{max}$

C $0.759 V_{max}$

D $0.437 V_{max}$

153

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 155

Acceleration of rolling object is zero at _____ point of hill

A

highest

B

lowest

C

middle

D

none of these

154

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 156

Mutual inductance has a practical role in performance of

A AC generator

B radio choke

C DC generator

D Transformer

155

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 157

If two bodies have same temperature the rate of heat transfer between them is

A

infinite

B

zero

C

double the temperature

D

none of these

156

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 158

A gas expands 0.25 m^3 at constant pressure 10^3 N/m^2 then work done is

A 0.25 ergs

B 25 ergs

C 250 joules

D 250W

157

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 159

For constant linear acceleration, angular acceleration and radius are

A

equal

B

inversely related

C

directly related

D

no relation

158

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 160

A wheel whose radius is 50 cm rotates at an angular velocity of 6 rad/sec. The linear velocity of the rim of the wheel is closest to

A 1.5 m/s

B 4.5 m/s

C 3.0 m/s

D 7.5 m/s

159

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 161

Mathematical form of ohm's law is _____

A

$$I=VR$$

B

$$R=VI$$

C

$$I=R/V$$

D

$$I=V/R$$

160

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 162

Which one of the following process is irreversible?

A

Slow compressions of an elastic spring

B

Slow evaporation of a substance in an isolated vessel

C

Slow compression of a gas

D

a chemical explosion

161

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 163

$\text{emf} = -N(\Delta\Phi/\Delta t)$ is according to

A Ampere's Law

B Faraday's Law

C Lenz's Law

D none of these

162

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 164

For static electric field

A

$$\nabla \times \mathbf{E} = 0$$

B

$$\nabla \cdot \mathbf{E} = 0$$

C

$$(\nabla \times \mathbf{E}) \times \mathbf{E} = 0$$

D

$$\nabla \cdot |\mathbf{E}|^2 = 0$$

163

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 165

Work has the dimension as that of

A torque

B momentum

C power

D angular momentum

164

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 166

For a coil self inductance L and current I then flux passing through it is

A LI

B LI^2

C L^2I

D $(LI)^2$

165

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 167

In a cyclotron, a charged particle

- A undergoes acceleration all the time.
- B speeds up between the dees because of the magnetic field.
- C speeds up in a dee.
- D slows down within a dee and speeds up between dees

166

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 168

An ideal gas of n moles is enclosed in a container at a constant pressure p . The graph between volume of gas and its absolute temperature is a straight line. What is the gradient of the graph?

A $nR \text{ ----- } p$

B nRP

C $n \text{ --- } RP$

D $np \text{ ----- } R$

167

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 169

Which of the following cases (if any) requires the greatest amount of heat? In each case the material is the same.

A

1.5 kg of the material is to be heated by 7.0 C°

B

3.0 kg of the material is to be heated by 3.5 C°

C

0.50 kg of the material is to be heated by 21 C°

D

The amount of heat required is the same in each of the three previous cases

168

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 170

A pipe is open at both ends. A stationary wave is formed in the air of the pipe. Which statement is true:

A

there is always a central antinode

B

there is always a central node

C

the sum of number of nodes and the number of antinodes is always an even number

D

the sum of number of nodes and the number of antinodes is always an odd number

169

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 171

A person with dark skin will feel

A more heat

B more cold

C both a and b

D heat doesn't depend on skin color

170

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 172

Half wave voltage multiplier can provide any degree of voltage multiplication by cascading diodes and capacitors.

A any doubler

B any tripler

C any multiplication

D none of them

171

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 173

A particle radioisotope has a half life of 5 days. In 15 days the probability of decay in percentage will be

A 67 %

B 87.5 %

C 82.5 %

D 77 %

172

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 174

A resistance of 40 Ohms is attached to a circuit having current of 300 Amp, Find its voltage.

A 12000 volts

B 15000 volts

C 20000 volts

D 300 volts

173

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 175

Resistivity of a wire is ____ ohm-m if 0.75 A current flows through it by applying 1.5 V potential difference, take length and cross section as 5m and $2.5 \times 10^{-7} \text{ m}^2$.

A 1×10^{-7}

B 2.63×10^{-8}

C 19×10^{-8}

D 7.85×10^{-8}

174

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 176

Vector is quantity which

A

has direction

B

has magnitude

C

follow rules of vector addition

D

both direction and magnitude

175

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 177

What is the wavelength of the wave if the phase angle between two points of the medium is $3\pi/4$ and they are separated through a distance of 3 cm?

A 8 cm

B 9 cm

C 1 cm

D 12 cm

176

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 178

The activity of a certain nuclei decreases to 15 % of its original value in 10 days. Find its half life?

A 2 days

B 2. days

C 3.65 days

D 4 days

177

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 179

gamma rays are attracted towards

A

negative plate

B

positive plate

C

no deflection

D

pass through the medium

178

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 180

A 220 V main supply is connected to a resistance of 100 k ohms. The effective current is

A

2.2 mA

B

$2.2/\sqrt{2}$ mA

C

$2.2\sqrt{2}$ mA

D

none of the above

179

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 181

She thanked me for what I _____.

A have done

B has done

C have been done

D did

180

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 182

Measles _____ a contagious childhood disease

A is

B are

C were

D be

181

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 183

We will need _____ umbrella today.

A

a

B

an

C

the

D

no article

182

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 184

The robbers fell _____ amongst themselves over the sharing of the loot.

A

out

B

through

C

across

D

off

183

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 185

A girl _____ (ride) an elephant around the ring.

A

ride

B

was riding

C

rode

D

will ride

184

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 186

Give me three minutes and I'll _____.

A

return you call

B

call you in back

C

get back to you

D

be phoned back

185

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 187

What is the tense of this question? Did you go to the chemist's on your way home?

A Present

B past

C future

D none of these

186

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 188

We are trying (A)/ to locate the (B) /historical city for(C) /the past two years. (D)

A

We were trying

B

to locate the

C

historical city for

D

the past two years.

187

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 189

You _____ again?What's the problem.

A crying

B crys

C are crying

D is crying

188

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 190

I am going for _____ walk in _____ park.

A

a...a

B

a..an

C

a..the

D

an..an

189

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 191

glistening

A

sweating and shining

B

polishing and shining

C

reflecting or sparkling

D

sparkling or shining

190

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 192

Father must _____ left his briefcase at the office.

A of

B had

C have

D opt

191

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 193

Choose the correct sentence.

A

The air was crisp and clear it was a lovely day.

B

The air was crisp and clear, it was a lovely day.

C

The air was crisp and clear; it was a Lovely Day.

D

The air was crisp and clear; it was a lovely day.

192

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 194

The students accompanied by their teacher _____ gone on a picnic.

A has

B have

C are

D was

193

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 195

Choose the correct sentence.

A

The colors in the curtains are; yellow orange beige and tan.

B

The colors in the curtains are yellow, orange, beige and tan.

C

The colors in the Curtains are yellow, orange, beige and tan.

D

The colors in the curtains are yellow orange beige and tan.

194

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 196

_____ ozone layer will disappear if we don't find _____ way to save it.

A The...the

B The...an

C The...a

D A... a

195

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 197

Our car broke down; so we came last.

A complex

B simple

C compound

D compound-complex

196

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 198

The police will _____ out crimes for years.

A has been wiping

B have been wiping

C wipes

D wiped

197

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 199

_____ (sit) down with a pen and paper, I began to make a list of the ingredients I needed.

A sat

B stitting

C sits

D sit

198

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 200

Everyone who was injured (A)/ in the accident (B)/ was taken (C)/ to the hospital (D).

A Everyone who was injured

B in the accident

C was taken

D to the hospital

199

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 201

Find the different one

A

Mother

B

Sister

C

Maid

D

Aunt

200

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 202

Fact1: All drink mixes are beverages Fact 2: All beverages are drinkable Fact 3: All beverages are red If the above three statements are facts than which of the following statement will also be a fact I. Some drink mixes are red II. All beverages are drink mixes. III. All red drink mixes are drinkable

A I only

B II only

C III only

D None of them is a fact

201

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 203

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

202

SKIPPED QUESTIONS

[< Previous Question](#)[Next Question >](#)

Q 204

I. The social initiative for women has enable them to transform their lives. II. The campaign “Rights for women” was initiated by university students.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect.
- C Both statements I and II are independent causes
- D Both statements I and II are the effects of independent cause.

203

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 205

Which country do not have army?

A

Palestine

B

China

C

Mauritius

D

Hong Kong

204

SKIPPED QUESTIONS

< Previous Question

Next Question >

Q 206

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

D Only I follows

205

SKIPPED QUESTIONS

Q 206

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

D Only I follows

205

SKIPPED QUESTIONS 

Q 207

Find the odd man out. 24,36,52,72,96

A

72

B

52

C

36

D

Both A and B

206

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 208

Statements Pakistan is a multilingual country. Urdu is the national language of Pakistan. Conclusions (I) All Pakistanis should learn many languages. (II) To be an Indian one needs to learn Urdu.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

207

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 209

Complete the series. F16, H32, J48, _.

A

K66

B

L64

C

M68

D

N90

208

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 210

Statement Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

- A If argument I is strong
- B If only argument II is strong
- C If both I and II are strong.
- D If neither I nor II is strong

209

SKIPPED QUESTIONS 



Q1

Canal rays are produced in the discharge tube from_____?

A

Anode

B

Cathode

C

Gas molecules in the tube

D

None of these

[< Previous Question](#)[Next Question >](#)



Question 2/210

Q2

Which enzyme is used for diagnosis of Jaundice ?

A

LDH-1

B

Protease

C

Alkaline phosphatase

D

None of these

Previous Question

Next Question



Question 3/210

Q3

An involuntary and nearly instantaneous movement in response to a stimulus is called:

A

Reflex

B

reflex arc

C

Neuron

D

Synapse

[< Previous Question](#)

[Next Question >](#)



Q4

A condition is known to be X-linked dominant. An affected man and unaffected woman have a son. What is the likelihood that the son will be affected?

A

There is a one in four chance the son will be affected

B

There is a three in four chance that the son will be affected

C

There is a one in two chance that the son will be affected

D

The son cannot be affected



Question 5/210

Q5

The current passing through a conductor is directly proportional to the potential difference applied across its terminals, provided the temperature and other physical conditions of the conductor does not change

A

Gauss's law

B

Lenz law

C

Pascal's law

D

Ohm's law

[← Previous Question](#)

[Next Question →](#)



Question 6/210

Q6

This is a reduced compound

A

CO_2

B

O_2

C

NADH

D

NAD^+

[< Previous Question](#)

[Next Question >](#)



Question 7/210

Q7

What is not true about human lungs?

A

They are opened sacs

B

They are closed sacs

C

They are spongy in nature

D

They are placed in chest cavity

[← Previous Question](#)

[Next Question →](#)



Question 8/210

Q8

The composition of brain stem is:

A

spinal cord, axon, vertebra

B

cerebrum, cerebellum, pons

C

medula, pons, midbrain

D

thalamus, midbrain, pons

[← Previous Question](#)

[Next Question →](#)



Q9

What will happen in a time of 7 hours, if a radioactive substance has an average life of 7 hours?

A

Half of the active nuclei decay

B

less half of the active nuclei decay

C

more than half of the active nuclei decay

D

total nuclei decay



Question 10/210

Q10

The solids which does not possess the regular arrangement of atoms are called as ____?

A

Amorphous solids

B

Crystalline solids

C

Polymorphic solids

D

Isomorphous solids

[← Previous Question](#)

[Next Question →](#)



Q11

_____ is a macromolecule found in blood

A

Hemoglobin

B

plasma

C

creatinine

D

plasmids

[< Previous Question](#)[Next Question >](#)



Q12

Activator of carbonic anhydrase enzyme is _____.

A

 Mn^{2+}

B

 Mg^{2+}

C

 Zn^{2+}

D

None of these

[< Previous Question](#)[Next Question >](#)



Q13

The severe reduction in population size is due to which of the following?

A

genetic drift

B

outbreeding

C

inbreeding

D

bottleneck

[< Previous Question](#)[Next Question >](#)



Q14

Transition elements form complexes because_____?

A

They have empty d orbitals

B

They show variable oxidation states

C

Both a and b

D

They have strong bonding



Q15

Which functional group does amino acid contains;

A

carbonyl group

B

ester and alkyl halide

C

carboxylic acid

D

carboxylic acid and amine functionality



Q16

Which of the following reactions are not given by benzene?

A

Elimination

B

Addition

C

Substitution

D

Dehydration

[< Previous Question](#)[Next Question >](#)



Q17

Iodine has greater heat of sublimation than its family members due to presence of stronger?

A

H-bonding

B

London dispersion forces

C

Dipole-dipole force

D

Chemical bonding

[< Previous Question](#)[Next Question >](#)



Q18

As reaction starts instantaneous rate is

A

Higher than Average rate

B

Lower Than average rate

C

equal to average rate

D

None of these

[< Previous Question](#)[Next Question >](#)



Q19

_____cathode is used in discharge tube experiment for discovery of protons

A

flat

B

round

C

perforated

D

oval



Q20

Hess law is known as

A

Law of heat summation

B

Law of constant heat capacity

C

Law of mass action

D

Law of conservation of mass

[< Previous Question](#)[Next Question >](#)



Q21

The carbonyl compound which is attached with at least one H atom at one side is called as _____?

A

Ketones

B

Aldehydes

C

Ethers

D

Alkyl halides

[< Previous Question](#)[Next Question >](#)



Question 22/210

Q22

Conversion of Electrical energy into chemical energy is

A

Mechanical Energy

B

Electromechanical Energy

C

Electrochemistry

D

Chemical Energy

[< Previous Question](#)

[Next Question >](#)



Q23

Suppression of ionization means

A

Decreasing Ionization

B

Increasing Ionization

C

Maintaining Ionization

D

None of these

[< Previous Question](#)[Next Question >](#)



Q24

Which one is natron?

A

 Na_2CO_3

B

 $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$

C

 $\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$

D

 NaHCO_3 [< Previous Question](#)[Next Question >](#)



Question 25/210

Q25

when sudden expansion of gases takes place, cooling occurs. This is called

A

freezing effect

B

Joule Thomson effect

C

Boyles effect

D

J.Perrin effect

Previous Question

Next Question



Q26

By which reaction benzene is prepared from cyclohexane?

A

Hydrogenation

B

Dehydrogenation

C

Dehydration

D

None of these

[← Previous Question](#)

[Next Question →](#)



Question 27/210

Q27

Effusion is the movement of a gas through extremely small opening of molecular size into region of ____ pressure

A

high

B

low

C

moderate

D

same

[< Previous Question](#)

[Next Question >](#)



Question 28/210

Q28

The activation energy for forward and reverse reaction can be lowered by

A

Lowering temperature

B

decreasing pressure

C

catalyst

D

All of these

[< Previous Question](#)

[Next Question >](#)



Q29

The alcohols in which the carbon which is attach to the OH group is further attach with two carbon atoms is called as?

A

Primary alcohols

B

Secondary alcohols

C

Tertiary alcohols

D

None of these

[< Previous Question](#)[Next Question >](#)



Q30

The elements of which group show abnormally very low values of electron affinity in every period of periodic table

A

group 2A

B

group 5A

C

both A & B

D

none of these

[< Previous Question](#)[Next Question >](#)



Q31

The increase in atomic radii in _----is due to increase in the number of shells and the screening effect

A

groups

B

periods

C

both A & B

D

none of these

[< Previous Question](#)[Next Question >](#)



Q32

What will be density of CH_4 at C and 1 atm

A

 7138 g/cm^3

B

 0.7138 g/dm^3

C

 0.7138 g/cm^3

D

 71.38 g/dm^3 [< Previous Question](#)[Next Question >](#)



Q33

On which of the following factors rate of enzyme action is directly proportional ?

A

Concentration of products

B

Time

C

Concentration of substrate

D

Concentration of solvent

[< Previous Question](#)[Next Question >](#)



Q34

Which one of the following is not a organic compound?

A

Urea

B

Methane

C

Carbon dioxide

D

Coal

[< Previous Question](#)[Next Question >](#)



Q35

The total energy of products in a chemical reaction is

A

equal to reactants

B

More than reactants

C

always zero

D

Less Than Reactants

[< Previous Question](#)[Next Question >](#)



Q36

The positive sign in the rate expression for products depicts

A

Decrease in concentration

B

Increase in concentration

C

Increase in yield

D

decrease in temperature

[< Previous Question](#)[Next Question >](#)



Q37

Thermal conductivity of graphite is greater when mobile electron are moving _ to its layers

A

perpendicular

B

right angle

C

parallel

D

all of these

[< Previous Question](#)[Next Question >](#)



Q38

Which of the following is true about the kinetics of bimolecular elimination reactions?

A

1st order reaction

B

2nd order reaction

C

Zero order reaction

D

3rd order reaction

◀ Previous Question

Next Question ▶



Q39

Isoenzymes comes from ____?

A

Same sources

B

Different organisms

C

Same organisms

D

None of these

[< Previous Question](#)[Next Question >](#)



Q40

Which of the following reaction takes place when alkyl halide react with KOH in water ?

A

Substitution reaction

B

Elimination reaction

C

Addition reaction

D

None of these

[< Previous Question](#)[Next Question >](#)



Q41

Which one of the following is a state function that describe both the internal energy and product of pressure and volume ?

A

Entropy

B

Heat

C

Enthalpy

D

Temperature



Q42

The E.m.f of a Cell is equals to

A

 $\text{Emf(oxidation)} - \text{Emf(Reduction)}$

B

 $\text{Emf(oxidation)} + \text{Emf(Reduction)}$

C

 $\text{Emf(oxidation)} \times \text{Emf(Reduction)}$

D

None of these

[< Previous Question](#)[Next Question >](#)



Q43

NaOH is named as caustic soda because

A

It corrodes the organic tissues

B

It is used in soda water

C

It reacts with chlorine gas

D

It reacts with fats to form soap



Q44

Conversion of water into steam is a

A

Spontaneous Reactions

B

Exothermic Reaction

C

Reversible Reaction

D

Combustion Reaction

[< Previous Question](#)[Next Question >](#)



Q45

Which at following can be prepared by the reaction of Grignard reagent with aldehydes

A

Ketones

B

hydrocarbons

C

alcohols

D

ethers

[< Previous Question](#)[Next Question >](#)



Question 46/210

Q46

The region where probability of finding the electron is negligible is called as

A

Nucleus

B

Atom

C

Orbital

D

Nodal plane

[< Previous Question](#)

[Next Question >](#)



Q47

A full stop may have _____ atoms present in it

A

one million

B

two millions

C

one billion

D

two billions

[< Previous Question](#)[Next Question >](#)



Q48

If we are given with the mass of a substance ,we can calculate _____ of other substance with the help of a balanced chemical equation.

A

mass

B

volume

C

moles

D

all of these

[< Previous Question](#)[Next Question >](#)



Q49

Boiling point of halogens _____ down the group?

A

Increases

B

Decreases

C

Remain same

D

Shows abnormal behaviour

[< Previous Question](#)[Next Question >](#)



Q50

Platinum Foil is coated with finely divided platinum black in SHE to give larger

A

Mass

B

Volume

C

Surface Area

D

Temperature difference

[< Previous Question](#)[Next Question >](#)



Q51

If anyone of the products concentration is plotted against time instead of reactants the curve obtained will be

A

Parabolic

B

Rising

C

Falling

D

Elliptical

[< Previous Question](#)[Next Question >](#)



Q52

What is the value of enthalpy of neutralization when one mole of base reacts with one mole of acid?

A

- 60.5 kJ/mol

B

-46.5kJ/mol

C

-70.5 kJ/mol

D

-57.4kJ/mol

[< Previous Question](#)[Next Question >](#)



Q53

The transition temperature of all allotropic forms of an element are always less than its

A

freezing point

B

melting point

C

boiling point

D

none of these

[< Previous Question](#)[Next Question >](#)



Q54

Which of the following would not mix with each other easily ?

A

Water, ethanol

B

Water ,acetone

C

Water, pentane

D

Water ,chloroform

[< Previous Question](#)[Next Question >](#)



Q55

It is not possible for us to measure exact position and exact momentum of electron simultaneously is the statement of

A

de-Broglie

B

Mosley

C

Heisenberg

D

Neil Bohr

[< Previous Question](#)[Next Question >](#)



Q56

Benzene molecule contains:

A

Three triple bonds

B

Two double bonds

C

Three double bonds

D

No multiband

[< Previous Question](#)[Next Question >](#)



Q57

In some cases during atomic orbital hybridization, ground state electrons promoted to excited states , as a result __increases

A

number of shells

B

number of electrons

C

number of unpaired electrons

D

number of bonds

[< Previous Question](#)[Next Question >](#)



Q58

The oxidation number of Nickel in $[\text{Ni}(\text{CO})_4]$ is

A

2

B

8

C

6

D

4

[< Previous Question](#)[Next Question >](#)



Q59

The sum of mole fraction of the gases in a mixture of gases is

A

always greater than 1

B

always smaller than 1

C

may be equal or less than 1

D

always 1

[< Previous Question](#)[Next Question >](#)



Q60

The catalyst used for ether formation by dehydration of alcohols

A

Cons HN_3 at 14 C

B

Cons H_2SO_4 at 14 C

C

Hot H_3PO_4 at 18 C

D

ZnCl_2 at 45 C

[< Previous Question](#)[Next Question >](#)



Q61

Which of the following bond has highest bond energy value ?

A

C-I

B

C-H

C

C-Cl

D

C-F

[< Previous Question](#)[Next Question >](#)



Q62

The _study of composition of pure substance in 17th century clearly shows that few elements are components of many substances

A

qualitative

B

quantitative

C

both A & B

D

extensive

[< Previous Question](#)[Next Question >](#)



Q63

What is the purpose of calcium in the muscles?

A

It helps move the myosin head into a high-energy position

B

It allows tropomyosin to be pulled away from the actin filament

C

both a and b

D

none of these

[< Previous Question](#)[Next Question >](#)



Q64

In bacterial categories the bacteria smaller in number are which of the following?

A

Gram negative bacteria

B

Gram positive bacteria

C

Eubacteria

D

Ancient bacteria

[< Previous Question](#)[Next Question >](#)



Question 65/210

Q65

The animals in which coelom is formed due to splitting of mesoderm are known as which of the following?

A

Pseudocoelom

B

Enterocoelous

C

Amphicoelous

D

Schizocoelous

[Previous Question](#)

[Next Question](#)



Q66

Which element has function in opening and closing of stomata?

A

K

B

Mg

C

Cu

D

Fe

[< Previous Question](#)[Next Question >](#)



Question 67/210

Q67

What is the name of the tube that carries the sperm from the testes to the urethra?

A

Penis

B

seminal vesicles

C

Prostate gland

D

sperm duct

[← Previous Question](#)

[Next Question →](#)



Question 68/210

Q68

In competitive inhibition, the two things that binds to enzyme active site are?

A

substrate

B

inhibitors

C

catalyst

D

both A and B

[< Previous Question](#)

[Next Question >](#)



Question 69/210

Q69

A complex substance which on hydrolysis yields polyhydroxy aldehyde or ketone subunits is called?

A

Lipid

B

Carbohydrate

C

Protein

D

All of these

[← Previous Question](#)

[Next Question →](#)



Q70

Which reaction is catalyzed by the enzyme RuBisCO?

A

carboxylation of ribulose biphosphate (RuBP)

B

conversion of triose phosphate (TP) to ribulose phosphate (RuP)

C

oxidation of glycerate-3-phosphate (GP)

D

reduction of glycerate-3-phosphate (GP)

[< Previous Question](#)[Next Question >](#)



Q71

The outermost layer in a typical plant cell would be _____.

A

Primary cell wall

B

Secondary cell wall

C

Middle lamellae

D

Cell surface membrane



Q72

Mating with non-relatives is known as?

A

inbreeding

B

outbreeding

C

breeding

D

none of these

[< Previous Question](#)[Next Question >](#)



Question 73/210

Q73

Where does the bacteriophage replicate?

A

Human

B

Animal

C

Bacteria

D

Horse

Previous Question

Next Question



Q74

Which of the following is not a component of HIV?

A

RNA

B

protein

C

ribosomes

D

reverse transcriptase

[< Previous Question](#)[Next Question >](#)



Q75

The term that should be last in the reflex sequence is:

A

Receptor

B

Effector

C

Sensory neuron

D

Motor neuron

[< Previous Question](#)[Next Question >](#)



Question 76/210

Q76

The reaction of carbon dioxide and RUBP is catalyzed by?

A

ATP synthase

B

Globulin

C

Rubisco

D

NADH dehydrogenase

[← Previous Question](#)

[Next Question →](#)



Q77

In Prokaryotes, respiration enzymes are present on

A

Mesosomes and cell membrane

B

cell membrane and ribosome

C

mososomeses and ribosomes

D

all of Above

[< Previous Question](#)[Next Question >](#)



Question 78/210

Q78

The most important function of the cytoplasm is to acts as a?

A

activity site

B

storehouse

C

wastes

D

none of these

[← Previous Question](#)

[Next Question →](#)



Q79

What specialized enzymes do the AIDs retrovirus consist of?

A

DNA polymerase

B

Ligase

C

Reverse transcriptase

D

helicase

[< Previous Question](#)[Next Question >](#)



Question 80/210

Q80

Sub-kingdom parazoa includes:

A

Annelida

B

Cnidaria

C

Porifera

D

Protozoa

[← Previous Question](#)

[Next Question →](#)



Q81

If we consider Hardy-Weinberg law, then following is incorrect in its sense?

A

Mutations cause changes in genetic frequency

B

Migration changes allele frequency

C

There should not be selection

D

Non-random mating will reduce chances of evolution



Question 82/210

Q82

Which of the following light is least absorbed by the plants?

A

Orange blue

B

red

C

blue

D

green

[← Previous Question](#)

[Next Question →](#)



Q83

Transmethylases helps in transfer of which of the following?

A

methyl group

B

ethyl group

C

amino group

D

acetyl group

[< Previous Question](#)[Next Question >](#)



Question 84/210

Q84

In the human body, the group formed by neurons enclosed in the membrane at certain body parts is called?

A

benign

B

malign

C

ganglion

D

neuroglial

Previous Question

Next Question



Question 85/210

Q85

How many amino acids are constituents of proteins in the human body only?

A

20

B

24

C

23

D

25

[< Previous Question](#)

[Next Question >](#)



Q86

Homology means

A

similiary in characteristics resulting from common ancestors

B

similarity in function from acquired characterists

C

study of similar organs but with different functions

D

study of similar ograms but with different functions



Q87

The rate of reaction is directly proportional to the concentration of an enzyme which statement is incorrect in this respect?

A

If the concentration is doubled the rate will become one fold

B

If the concentration is doubled the rate will become two fold

C

This relation is for unlimited time period with unlimited enzyme concentration

D

all of these



Q88

How is the HIV virus transmitted?

A

Sexual contact

B

Blood

C

Breast feeding

D

all of the above

[< Previous Question](#)[Next Question >](#)



Question 89/210

Q89

The bacteriophage incorporates in the viral genome in which phase?

A

lysogenic cycle

B

lytic cycle

C

both

D

none

[← Previous Question](#)

[Next Question →](#)



Q90

Reflex arc is comprises of:

A

Motor nerve

B

sensory nerve

C

Both A and B

D

Mixed nerve

[< Previous Question](#)[Next Question >](#)



Question 91/210

Q91

When did experimental administration of the HIV virus begin?

A

200

B

2001

C

2005

D

1999

[← Previous Question](#)

[Next Question →](#)



Question 92/210

Q92

The thick and thin filaments of myofibrils are arranged in units called:

A

Z-line

B

actin

C

Sarcomere

D

sarcolemma

[← Previous Question](#)

[Next Question →](#)



Question 93/210

Q93

A disc-like protein that is centrally found in sarcomeres is:

A

H line

B

Z line

C

M line

D

I line

[← Previous Question](#)

[Next Question →](#)



Question 94/210

Q94

The active site of an enzyme is?

A

never changes

B

Forms no chemical bond with substrate

C

They are non specific in their action

D

Determined by structure and the specificity of the enzyme

[← Previous Question](#)

[Next Question →](#)



Q95

2nd meiotic division in oocyte is completed during?

A

When ovum is discharged from the ovary

B

Just before fertilization

C

Before the onset of menstruation

D

When oocyte is fertilized by sperm



Q95

2nd meiotic division in oocyte is completed during?

A

When ovum is discharged from the ovary

B

Just before fertilization

C

Before the onset of menstruation

D

When oocyte is fertilized by sperm



Q96

The path of electrons through the two photosystems is called?

A

S scheme

B

X scheme

C

Z scheme

D

Y scheme

[< Previous Question](#)[Next Question >](#)



Question 97/210

Q97

Peptides are intermediate in the formation of ____

A

lipids

B

DNA

C

RNA

D

protein

[← Previous Question](#)

[Next Question →](#)



Q98

Flagella might have arisen through the ingestion of which of the following?

A

Cyanobacteria

B

Chlamydomonas

C

Paramecium

D

Spirochetes

◀ Previous Question

Next Question ▶



Question 99/210

Q99

Prokaron means before nucleus in

A

Dutch

B

Greek

C

Roman

D

Spanish

[← Previous Question](#)

[Next Question →](#)



Q100

How many autosomes does a human primary spermatocyte have?

A

43

B

44

C

45

D

46

[< Previous Question](#)[Next Question >](#)



Q101

In the plants, there are 50 or more thylakoids piled upon each other to form?

A

granum

B

centrosome

C

stroma

D

multinucleate

[< Previous Question](#)[Next Question >](#)



Q102

The cells that secrete testosterone

A

Nerve cells

B

fat cells

C

muscle cells

D

interstitial cells

[< Previous Question](#)[Next Question >](#)



Q103

Umbilical cord contains which of the following?

A

Pluripotent stem cells

B

Blood stem cells

C

Cord blood stem cells

D

both a and b



Q104

The external solution having more concentration than the cell sap is known as:

A

Hypertonic solution

B

Hypotonic solution

C

Isotonic solution

D

All A,B and C

[< Previous Question](#)[Next Question >](#)



Q105

Darwin described his theory of natural selection as which of the following?

A

Punctuated equilibrium

B

Survival of the fittest

C

Inheritance of acquired characteristics

D

Descent with modification

[< Previous Question](#)[Next Question >](#)



Q106

which of the following best describes the prosthetic group?

A

Loosely bonded non-proteins part of an enzyme

B

cofactor consists of metal ions

C

Covalently bonded non-protein part of an enzyme

D

none of these



Q107

To form a female zygote, the sperm cell must contribute which chromosome?

A

X

B

2X

C

Y

D

XY

[< Previous Question](#)[Next Question >](#)



Q108

Mendel's laws are explained by:

A

Chromosomes behaviour in mitosis

B

Cytokinesis in mitosis and meiosis

C

Chromosomes behaviour in meiosis

D

Mendel's law have not been explained

[< Previous Question](#)[Next Question >](#)



Q109

How do competitive inhibitors affect enzyme efficiency?

A

Raise the maximum rate of the enzymatic reaction

B

Lower the maximum rate of the enzymatic reaction

C

Lower the Michaelis constant

D

Raise the Michaelis constant



Question 110/210

Q110

What is the approximate diameter of the peroxisome?

A

0.5 micrometer

B

1.5 micrometer

C

2 micrometer

D

1 micrometer

[← Previous Question](#)

[Next Question →](#)



Q111

Which of these joints allow little or no movement?

A

Synovial Joints

B

Ball and Socket Joint

C

Cartilaginous Joints

D

Cartilaginous Joints

[< Previous Question](#)[Next Question >](#)



Question 112/210

Q112

For every 3 molecules of carbon dioxide in Calvin cycle how much G3P is produced?

A

6

B

2

C

4

D

8

[← Previous Question](#)

[Next Question →](#)



Q113

What is the chemical characteristic of auxins?

A

Indole propionic acid

B

Indole carboxylic acid.

C

Indole acetaldehyde

D

Indole acetic acid.

[< Previous Question](#)[Next Question >](#)



Q114

Porcupine is a mammal because:

A

The scales on its body are modified as spines for protection against predators.

B

It lays eggs and has mammary glands.

C

The fur on its body is modified as spines and it is warm-blooded.

D

None of the above.



Question 115/210

Q115

Louis Pasteur made many discoveries in field of

A

Microbiology and Genetics

B

Genetics and Medicines

C

Microbiology and Medicines

D

Pathology and Genetics

[← Previous Question](#)

[Next Question →](#)



Q116

Primordial soup is a set of hypothetical conditions on ancient earth first proposed by?

A

Dmitri Ivanovsky

B

Dmitry Anuchin

C

Nikolay Shatsky

D

Alexander Oparin

[< Previous Question](#)[Next Question >](#)



Q117

Which of the following is synthesized by free floating ribosomes of cytoplasm in humans?

A

DNA polymerase

B

salivary amylase

C

pancreatic amylase

D

DNA helicase



Q118

The number of calories required to raise the temperature of 1g of water from 15 to 16 C is called?

A

Specific Heat of Vaporization

B

Specific heat capacity

C

caloric heat

D

both a and b

[< Previous Question](#)[Next Question >](#)



Q119

Which of these is common is both lymph vessels and veins?

A

Both have small bore

B

both have valves

C

both have low blood pressure

D

both are communicated

[< Previous Question](#)[Next Question >](#)



Q120

Fatty acids release considerable amount of energy in oxidation and ____

A

calvin cycle

B

Kreb's cycle

C

dark reaction

D

light reactions

[< Previous Question](#)[Next Question >](#)



Q121

Which of the following is not a true characteristic of gametocytes?

A

Male gametocytes are called spermatocytes

B

Gametocytes can divide by mitosis into other gametocytes

C

Female gametocytes are called oocytes

D

They are eukaryotic somatic cells



Q122

Which rays have highest charge

A

alpha

B

beta

C

gamma

D

none of these

[< Previous Question](#)[Next Question >](#)



Q123

Resistivity of a substance is defined as the resistance of a _____ of that substance.

A

meter

B

meter square

C

meter cube

D

centimeter

[< Previous Question](#)[Next Question >](#)



Q124

One radian is equal to:

A

57.3 degrees

B

47.3 degrees

C

67.5 degrees

D

59.5 degrees

[< Previous Question](#)[Next Question >](#)



Q125

In an A.C. generator, increase in number of turns in the coil

A

increases emf

B

decreases emf

C

makes the emf zero

D

maintains the emf at a constant value

[< Previous Question](#)[Next Question >](#)



Q126

In stretched string the frequency of vibration is given by $f = \frac{1}{2L} \sqrt{F/m}$. In this equation m has dimension

A

ML⁻²

B

ML⁻¹

C

M

D

ML

[< Previous Question](#)[Next Question >](#)



Question 127/210

Q127

What is the SI unit of work

A

joule

B

newton

C

watt

D

none of these

[← Previous Question](#)

[Next Question →](#)



Q128

The value for ϵ_r for air is:...

A

1.6

B

1.06

C

1.006

D

1.0006

[< Previous Question](#)[Next Question >](#)



Q129

Two objects, with different sizes, masses, and temperatures, are placed in thermal contact. In which direction does the energy travel?

A

energy travels from the larger object to the smaller object

B

energy travels from the object with more mass to the one with less mass

C

energy travels from the object at higher temperature to the object at lower temperature

D

energy does not travel



Q130

The direction of the restoring force is always towards:

A

right hand

B

up ward

C

rest or mean position

D

extreme position

[< Previous Question](#)[Next Question >](#)



Q131

When north pole of bar magnet move towards a conducting loop, induced current flows in

A

clockwise sense

B

anticlockwise sense

C

not generates

D

not enough information



Question 132/210

Q132

Half wave rectifier has _____ diodes

A

1

B

2

C

3

D

4

[← Previous Question](#)

[Next Question →](#)



Q133

The speed of sound in a metal is approximately:

A

1500 m/s

B

5000 m/s

C

330 m/s

D

50 m/s

[< Previous Question](#)[Next Question >](#)



Q134

A succession of events which bring the system back to its initial condition is called:....

A

oscillation

B

vibration

C

cycle

D

circle

[< Previous Question](#)[Next Question >](#)



Q135

Acceleration in the Simple pendulum is always _____ to displacement

A

inversely proportional

B

directly proportional

C

acting negative

D

independent



Q136

A simple pendulum has mass M , length L and time period T . What is the period of oscillation of the pendulum with mass $4M$ and length $0.36L$?

A

 $0.6T$

B

 T

C

 $2T$

D

 $3T$



Q137

A surface around a point source of light, on which all the points have the same phase of vibration is known as:

A

equipotential

B

surface of sphere

C

wavefront

D

ellipsoid

[< Previous Question](#)[Next Question >](#)



Q138

A uniform chain of length 2 m is kept on a table such that a length of 60 cm hangs freely from the edge of the table. The total mass of the chain is 4 kg. What is the work done in pulling the entire chain on the table?

A

7.2 J

B

3.6 J

C

120 J

D

1200 J



Q139

UV radiation is formed by bombarding gas molecules with

A

electron

B

protons

C

alpha rays

D

any of these

[< Previous Question](#)[Next Question >](#)



Q140

Magnetic flux is the dot product of magnetic induction and

A

area

B

vector area

C

unit area

D

none of these

[< Previous Question](#)[Next Question >](#)



Q141

The net force acting in an inertial frame is

A

positive

B

negative

C

zero

D

none of these

[< Previous Question](#)[Next Question >](#)



Q142

When a body moves in a circle, the angle between its linear velocity and angular velocity is always?

A

180

B

0

C

90

D

45

[< Previous Question](#)[Next Question >](#)



Q143

A reversible engine works between two temperatures whose difference is 100°C . If it absorbs 746 J of heat from the source and rejects 546 J to the sink, calculate the temperature of the source and the sink.

A

 $100^{\circ}\text{C}, 20^{\circ}\text{C}$

B

 $100^{\circ}\text{C}, 0^{\circ}\text{C}$

C

 $80^{\circ}\text{C}, 0^{\circ}\text{C}$

D

 $80^{\circ}\text{C}, 20^{\circ}\text{C}$ [< Previous Question](#)[Next Question >](#)



Q144

Isotopes means the elements have same

A

atomic number

B

proton number

C

different mass number

D

all of these

[< Previous Question](#)[Next Question >](#)



Q145

What is the half-time of a radioactive sample (in minutes), if its mean life is 200 s?

A

0.69 min

B

2 min

C

2.57 min

D

2.31 min

[< Previous Question](#)[Next Question >](#)



Q146

Nucleus absorbs

A

x rays

B

beta rays

C

gamma rays

D

all of these

[< Previous Question](#)[Next Question >](#)



Q147

Electric intensity and electric potential are related as:...

A

electric field intensity is equal to the negative of the gradient of electric potential

B

electric field intensity is equal to the gradient of electric potential

C

electric field intensity is equal to the square of the gradient of electric potential

D

electric field intensity is equal to the twice of the gradient of electric potential



Q148

Acceleration of rolling object is zero at _____ point of hill

A

highest

B

lowest

C

middle

D

none of these

[< Previous Question](#)[Next Question >](#)



Q149

Mutual inductance has a practical role in performance of

A

AC generator

B

radio choke

C

DC generator

D

Transformer



Q150

If two bodies have same temperature the rate of heat transfer between them is

A

infinite

B

zero

C

double the temperature

D

none of these

[< Previous Question](#)[Next Question >](#)



Q151

A gas expands 0.25 m^3 at constant pressure 10^3 N/m^2 then work done is

A

0.25 ergs

B

25ergs

C

250 joules

D

250W



Q152

For constant linear acceleration, angular acceleration and radius are

A

equal

B

inversely related

C

directly related

D

no relation

[< Previous Question](#)[Next Question >](#)



Q153

A wheel whose radius is 50 cm rotates at an angular velocity of 6 rad/sec. The linear velocity of the rim of the wheel is closest to

A

1.5 m/s

B

4.5 m/s

C

3.0 m/s

D

7.5 m/s

[< Previous Question](#)[Next Question >](#)



Q154

Mathematical form of ohm's law is _____

A

$$I=VR$$

B

$$R=VI$$

C

$$I=R/V$$

D

$$I=V/R$$

[< Previous Question](#)[Next Question >](#)



Q155

$\text{emf} = -N(\Delta\Phi/\Delta t)$ is according to

A

Ampere's Law

B

Faraday's Law

C

Lenz's Law

D

none of these

[< Previous Question](#)[Next Question >](#)



Q156

For static electric field

A

$$\nabla \times \mathbf{E} = 0$$

B

$$\nabla \cdot \mathbf{E} = 0$$

C

$$(\nabla \times \mathbf{E}) \times \mathbf{E} = 0$$

D

$$\nabla \cdot |\mathbf{E}|^2 = 0$$

[< Previous Question](#)[Next Question >](#)



Q157

Work has the dimension as that of

A

torque

B

momentum

C

power

D

angular momentum

[< Previous Question](#)[Next Question >](#)



Q158

For a coil self inductance L and current I then flux passing through it is

A

 LI

B

 LI^2

C

 L^2I

D

 $(LI)^2$ [< Previous Question](#)[Next Question >](#)



Q159

In a cyclotron, a charged particle

A

undergoes acceleration all the time.

B

speeds up between the dees because of the magnetic field.

C

speeds up in a dee.

D

slows down within a dee and speeds up between dees



Q160

An ideal gas of n moles is enclosed in a container at a constant pressure p . The graph between volume of gas and its absolute temperature is a straight line. What is the gradient of the graph?

A

$$nR \text{ ----- } p$$

B

$$nR p$$

C

$$n \text{ --- } R p$$

D

$$n p \text{ ----- } R$$

[< Previous Question](#)[Next Question >](#)



Q161

Which of the following cases (if any) requires the greatest amount of heat? In each case the material is the same.

A

1.5 kg of the material is to be heated by $7.0\text{ }^{\circ}\text{C}$

B

3.0 kg of the material is to be heated by $3.5\text{ }^{\circ}\text{C}$

C

0.50 kg of the material is to be heated by $21\text{ }^{\circ}\text{C}$

D

The amount of heat required is the same in each of the three previous cases



Q162

A pipe is open at both ends. A stationary wave is formed in the air of the pipe. Which statement is true:

A

there is always a central antinode

B

there is always a central node

C

the sum of number of nodes and the number of antinodes is always an even number

D

the sum of number of nodes and the number of antinodes is always an odd number



Q163

Half wave voltage multiplier can provide any degree of voltage multiplication by cascading diodes and capacitors.

A

any doubler

B

any tripler

C

any multiplication

D

none of them



Q164

A particle radioisotope has a half life of 5 days. In 15 days the probability of decay in percentage will be

A

67 %

B

87.5 %

C

82.5 %

D

77 %

[< Previous Question](#)[Next Question >](#)



Q165

A resistance of 40 Ohms is attached to a circuit having current of 300 Amp. Find its voltage.

A

12000 volts

B

15000 volts

C

20000 volts

D

300 volts

[< Previous Question](#)[Next Question >](#)



Q166

Resistivity of a wire is ____ ohm-m if 0.75 A current flows through it by applying 1.5 V potential difference, take length and cross section as 5m and $2.5 \times 10^{-7} \text{ m}^2$.

A

 1×10^{-7}

B

 2.63×10^{-8}

C

 19×10^{-8}

D

 7.85×10^{-8} [< Previous Question](#)[Next Question >](#)



Q167

Vector is quantity which

A

has direction

B

has magnitude

C

follow rules of vector addition

D

both direction and magnitude

[< Previous Question](#)[Next Question >](#)



Q168

Which one of the following is most reactive ?

A

Benzene

B

Ethane

C

Ethene

D

Ethyne

[< Previous Question](#)[Next Question >](#)



Q169

What is the wavelength of the wave if the phase angle between two points of the medium is $3\pi/4$ and they are separated through a distance of 3 cm?

A

8 cm

B

9 cm

C

1 cm

D

12 cm

[< Previous Question](#)[Next Question >](#)



Q170

The activity of a certain nuclei decreases to 15 % of its original value in 10 days. Find its half life?

A

2 days

B

2. days

C

3.65 days

D

4 days

[< Previous Question](#)[Next Question >](#)



Q171

gamma rays are attracted towards

A

negative plate

B

positive plate

C

no deflection

D

pass through the medium



Q172

A 220 V main supply is connected to a resistance of 100 k ohms. The effective current is

A

2.2 mA

B

$2.2/\sqrt{2}$ mA

C

$2.2 \times \sqrt{2}$ mA

D

none of the above



Q173

She thanked me for what I _____.

A

have done

B

has done

C

have been done

D

did

[< Previous Question](#)[Next Question >](#)



Question 174/210

Q174

Measles _____ a contagious childhood disease

A

is

B

are

C

were

D

be

[← Previous Question](#)

[Next Question →](#)



Q175

We will need _____ umbrella today.

A

a

B

an

C

the

D

no article

[< Previous Question](#)[Next Question >](#)



Q176

The robbers fell _____ amongst themselves over the sharing of the loot.

A

out

B

through

C

across

D

off

[< Previous Question](#)[Next Question >](#)



Q177

A girl _____ (ride) an elephant around the ring.

A

ride

B

was riding

C

rode

D

will ride

[< Previous Question](#)[Next Question >](#)



Q178

Give me three minutes and I'll _____.

A

return your call

B

call you in back

C

get back to you

D

be phoned back

[◀ Previous Question](#)[Next Question ▶](#)



Q179

What is the tense of this question? Did you go to the chemist's on your way home?

A

Present

B

past

C

future

D

none of these

[< Previous Question](#)[Next Question >](#)



Q180

We are trying (A)/ to locate the (B) /historical city for(C) /the past two years. (D)

A

We were trying

B

to locate the

C

historical city for

D

the past two years.

[< Previous Question](#)[Next Question >](#)



Q181

You _____ again?What's the problem.

A

crying

B

crys

C

are crying

D

is crying

[< Previous Question](#)[Next Question >](#)



Q182

I am going for _____ walk in _____ park.

A

a...a

B

a..an

C

a..the

D

an..an

[◀ Previous Question](#)[Next Question ▶](#)



Q183

glistening

A

sweating and shining

B

polishing and shining

C

reflecting or sparkling

D

sparkling or shining

[← Previous Question](#)

[Next Question →](#)



Q184

Father must _____ left his briefcase at the office.

A

of

B

had

C

have

D

opt

[← Previous Question](#)[Next Question >](#)



Q185

Choose the correct sentence.

A

The air was crisp and clear it was a lovely day.

B

The air was crisp and clear, it was a lovely day.

C

The air was crisp and clear; it was a Lovely Day.

D

The air was crisp and clear; it was a lovely day.



Q186

The students accompanied by their teacher _____ gone on a picnic.

A

has

B

have

C

are

D

was

[< Previous Question](#)[Next Question >](#)



Q187

Choose the correct sentence.

A

The colors in the curtains are; yellow orange beige and tan.

B

The colors in the curtains are yellow, orange, beige and tan.

C

The colors in the Curtains are yellow, orange, beige and tan.

D

The colors in the curtains are yellow orange beige and tan.



Q188

_____ ozone layer will disappear if we don't find _____ way to save it.

A The...the

B The...an

C The...a

D A... a

◀ Previous Question

Next Question ▶



Q189

Our car broke down; so we came last.

A

complex

B

simple

C

compound

D

compound-complex

[< Previous Question](#)[Next Question >](#)



Q190

The police will _____ out crimes for years.

A

has been wiping

B

have been wiping

C

wipes

D

wiped

[< Previous Question](#)[Next Question >](#)



Q191

_____ (sit) down with a pen and paper, I began to make a list of the ingredients I needed.

A

sat

B

sitting

C

sits

D

sit

[< Previous Question](#)[Next Question >](#)



Q192

Everyone who was injured (A)/ in the accident (B)/ was taken (C)/ to the hospital (D).

A

Everyone who was injured

B

in the accident

C

was taken

D

to the hospital

[< Previous Question](#)[Next Question >](#)



Question 193/210

Q193

Find the different one

A

Mother

B

Sister

C

Maid

D

Aunt

[← Previous Question](#)

[Next Question →](#)



Q194

Fact1: All drink mixes are beverages Fact 2: All beverages are drinkable Fact 3: All beverages are red If the above three statements are facts than which of the following statement will also be a fact I. Some drink mixes are red II. All beverages are drink mixes. III. All red drink mixes are drinkable

A

I only

B

II only

C

III only

D

None of them is a fact



Q195

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows



Q196

I. The social initiative for women has enable them to transform their lives. II. The campaign "Rights for women" was initiated by university students.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.



Question 197/210

Q197

Which country do not have army?

A

Palestine

B

China

C

Mauritius

D

Hong Kong

[← Previous Question](#)

[Next Question →](#)



Q198

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A

Only II and III follows

B

Only III and I follow

C

Only I and II follow

D

Only I follows



Q199

Find the odd man out. 24,36,52,72,96

A

72

B

52

C

36

D

Both A and B

[← Previous Question](#)[Next Question →](#)



Q200

Statements Pakistan is a multilingual country. Urdu is the national language of Pakistan. Conclusions (I) All Pakistanis should learn many languages. (II) To be an Indian one needs to learn Urdu.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

[Previous Question](#)[Next Question](#)



Q201

Complete the series. F16, H32, J48, _.

A

K66

B

L64

C

M68

D

N90

[< Previous Question](#)[Next Question >](#)



Q202

Statement Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

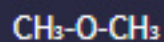
- A If argument I is strong
- B If only argument II is strong
- C If both I and II are strong.
- D If neither I nor II is strong



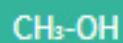
Q203

Which of the following compound is a Alcohol?

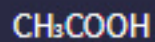
A



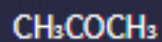
B



C



D

[< Previous Question](#)[Next Question >](#)



Q204

Fatty acids move through the plasma membrane by which transport method?

A

Passive transport

B

Active transport

C

Facilitated transport

D

Non-facilitated transport



Q205

A person with dark skin will feel

A

more heat

B

more cold

C

both a and b

D

heat doesn't depend on skin color



Q206

What is true about skeletal muscle cell?

A

It has light and dark band

B

It has only one nucleus

C

It is under involuntary control

D

None of these

[< Previous Question](#)[Next Question >](#)



Q207

A circuit that adds positive or negative dc voltage to an input sine wave is called

A

Clamper

B

clipper

C

diode clamp

D

limiter



Q208

Average dc Voltage across the load in terms of V_{max} is

A

 $0.532 V_{max}$

B

 $0.637 V_{max}$

C

 $0.759 V_{max}$

D

 $0.437 V_{max}$ [< Previous Question](#)[Next Question >](#)



Q209

Which of the following strategies of enzymatic inhibition is used by noncompetitive inhibitors?

A

Bind to substrate so that it cannot bind to the active site

B

Target the enzyme for destruction using a protease

C

Bind to the active site and prevent substrate from binding

D

Bind to an allosteric site to cause a conformational shift in the enzyme



Q210

Which one of the following process is irreversible?

A

Slow compressions of an elastic spring

B

Slow evaporation of a substance in an isolated vessel

C

Slow compression of a gas

D

a chemical explosion



Q210

Which one of the following process is irreversible?

A

Slow compressions of an elastic spring

B

Slow evaporation of a substance in an isolated vessel

C

Slow compression of a gas

D

a chemical explosion